**Use for 21**

*m*

2

1

4

3

*n*

21. If segments m and n are parallel, which of the following mathematical statements are true?

a. 2 = 3

b. 2 + 3= 180

c. 2 + 4 = 180

d. 1 = 3

22. What is the converse of this statement?

“If a person is a CHS teacher, then that

Person comes to CHS on school days.”

23. A line passes through the point (-3, 10) and has

a slope of -5. What is the y intercept of the

line? What is the equation of the line?

24. The points (-2,3) and (2, 11) are collinear.

What is the equation of the line?

25. Angle M and angle N are a linear pair. Angle M has a measure of 105 degrees. What is the measure of Angle N?

26. The equation of line t is y = 3/5 x +2. Line v passes through (0,5) and is perpendicular to line t. Write the equation in slope-intercept form of line v.

**27. Use for27**

*m*

2

1

4

3

*n*

5 6

Given: m n

Prove 2 3

GIVE THE REASONS FOR THE STATEMENTS.

STATEMENT REASONS

1. m n

2. 2 6

3. 6 3

4. 2 3

28. Write the equation of the perpendicular bisector of the segment from (3, -1) to (-5, 3).